

INTERNATIONAL SEARCH REPORT

International Application No
PC1/EP2004/012022

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E04H9/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E04H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 146 979 A (KEETCH WILLIAM A) 1 September 1964 (1964-09-01) column 2, line 23 - column 5, line 60; figures	1-9, 12, 31, 33
X	WO 00/37823 A1 (BANDO CHEMICAL INDUSTRIES, LTD; MATSUKAWA HIROKAZU; MATSUOKA, HIROSHI) 29 June 2000 (2000-06-29)	1-7, 12, 25, 26, 28, 29, 33, 34
A	abstract; figures 1-4	10, 11
X	US 3 638 377 A (MARC S. CASPE) 1 February 1972 (1972-02-01) column 7, line 6 - line 57; figures 4-7 -/-	1, 2, 6, 10-12, 25, 26, 28, 29, 33, 34

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

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- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *G* document member of the same patent family

Date of the actual completion of the international search

25 January 2005

Date of mailing of the international search report

01/02/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 330 103 A (THURIES ET AL) 18 May 1982 (1982-05-18)	1,2,4,6, 7,11, 18-21, 32,33
A	column 2, line 12 - column 4, line 23; figure	30
X	----- PATENT ABSTRACTS OF JAPAN vol. 1998, no. 06, 30 April 1998 (1998-04-30) & JP 10 038022 A (SHINDO TOMIHARU), 13 February 1998 (1998-02-13) abstract	1,2,7-9, 18-21, 26-29, 33,34
A	----- PATENT ABSTRACTS OF JAPAN vol. 1999, no. 03, 31 March 1999 (1999-03-31) & JP 10 329911 A (KAYABA IND CO LTD), 15 December 1998 (1998-12-15) abstract -----	

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Information on patent family members

International Application No

PCT/EP2004/012022

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 3146979	A	01-09-1964	NONE
WO 0037823	A1	29-06-2000	NONE
US 3638377	A	01-02-1972	NONE
US 4330103	A	18-05-1982	FR 2456885 A1 12-12-1980 CA 1133022 A1 05-10-1982 IN 153788 A1 18-08-1984 IT 1128761 B 04-06-1986 JP 55111022 A 27-08-1980 PT 70838 A 01-03-1980
JP 10038022	A	13-02-1998	NONE
JP 10329911	A	15-12-1998	NONE